

Declaration, Petition and Power of Attorney For Patent Application

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

**THERMALLY ENHANCED COMPACT REFORMER**

the specification of which

(check one)

☐ is attached hereto.

☒ was filed on April 12, 1996 as

Application Serial No. 08/631,432

and was amended on \_\_\_\_\_  
(if applicable)

I do not know and do not believe that the subject matter of this application was ever known or used in the United States before my invention thereof or patented or described in any printed publication in any country before my invention thereof or more than one year prior to the date of this application, and that said subject matter has not been patented or made the subject of an issued inventor's certificate in any country foreign to the United States on an application filed by me or my legal representatives or assigns more than twelve months prior to the date of this application; that I acknowledge my duty to disclose information of which I am aware which is material to the examination of this application, that no application for patent or inventor's certificate on the subject matter of this application has been filed by me or my representatives or assigns in any country foreign to the United States, except those identified below, and that I have reviewed and understand the contents of the specification, including the claims as amended by any amendment referred to herein.

I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

## PRIORITY CLAIM

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

Check one:

☒ no such applications have been filed.

☐ such applications have been filed as follows

EARLIEST FOREIGN APPLICATION(S), IF ANY FILED WITHIN 12 MONTHS  
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

Country	Application Number	Date of Filing (month,day,year)	Priority Claimed Under 35 USC 119
NONE			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

ALL FOREIGN APPLICATION(S), IF ANY FILED MORE THAN 12 MONTHS  
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

NONE

# CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S)

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application. As to subject matter of this application which is common to my earlier United States application, if any, described below, I do not believe that the same was ever known or used in the United States before my invention thereof or patented or described in any printed publication in any country before my invention thereof or more than one year prior to said earlier application, or in public use or on sale in the United States more than one year prior to said earlier application, that the said common subject matter has not been patented or made the subject of an inventor's certificate issued before the date of said earlier application in any country foreign to the United States on an application, filed by me or my legal representatives or assigns more than twelve months prior to said application and that no application for patent or inventor's certificate on said subject matter has been filed by me or my representatives or assigns in any country foreign to the United States except those identified herein.

<u>N/A</u>		
(Application Serial No.)	(Filing Date)	(Status)
		(patented,pending,aband.)
(Application Serial No.)	(Filing Date)	(Status)
		(patented,pending,aband.)

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

John A. Lahive, Jr.	Reg. No. 19,788	John V. Bianco	Reg. No. 36,748
W. Hugo Liepmann	Reg. No. 20,407	Jeremiah Lynch	Reg. No. 17,425
James E. Cockfield	Reg. No. 19,162	Amy E. Mandragouras	Reg. No. 36,207
Thomas V. Smurzynski	Reg. No. 24,798	Elizabeth A. Hanley	Reg. No. 33,505
Ralph A. Loren	Reg. No. 29,325	Anthony A. Laurentano	Reg. No. 38,220
Thomas J. Engellenner	Reg. No. 28,711	Jane E. Remillard	Reg. No. 38,872
William C. Geary III	Reg. No. 31,359	Edward J. Kelly	Reg. No. 38,936
Giulio A. DeConti, Jr.	Reg. No. 31,503	Mark A. Kurisko	Reg. No. 38,944
Ann Lamport Hammitte	Reg. No. 34,858	Beth E. Arnold	Reg. No. 35,430
Paul Louis Myers	Reg. No. 35,965	Jean M. Silveri	Reg. No. 39,036
Michael I. Falkoff	Reg. No. 30,833	Matthew P. Vincent	Reg. No. 36,709

Send Correspondence to: **Thomas J. Engellenner, Esq.**

**Lahive & Cockfield, 60 State Street, Boston, MA 02109**

Direct Telephone Calls to: (name and telephone number)

**Thomas J. Engellenner, Esq. (617) 227-7400**

Wherefore I petition that letters patent be granted to me for the invention or discovery described and claimed in the attached specification and claims, and hereby subscribe my name to said specification and claims and to the foregoing declaration, power of attorney, and this petition.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor <b>Michael S. Hsu</b>	
Inventor's signature <i>Michael S. Hsu</i>	Date <i>May 6, 1986</i>
Residence <b>Round Hill Road, Lincoln, Massachusetts 01773</b>	
Citizenship <b>United States of America</b>	
Post Office Address (if different) (Same address as above)	

Full name of second inventor, if any	
<b>Ethan D. Hoag</b>	
Inventor's signature	Date
<i>Ethan D Hoag</i>	<i>May 6, 1996</i>
Residence	
<b>177 Webster Street. East Boston, Massachusetts 02128</b>	
Citizenship	
<b>United States of America</b>	
Post Office Address (if different)	
(Same address as above)	

Applicant or Patentee: Michael S. Hsu, et al  
Serial or Patent No.: 08/631,432  
Filed or Issued: April 12, 1996  
Title: THERMALLY ENHANCED COMPACT REFORMER

Page's  
Docket No.: HSE-024

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS  
(37 CFR 1.9(f) and 1.27(c)) - SMALL BUSINESS CONCERN

I hereby declare that I am

- ☐ the owner of the small business concern identified below:  
☒ an official of the small business concern empowered to act on behalf of the concern identified below:

COPY

NAME OF SMALL BUSINESS CONCERN Ztek Corporation  
ADDRESS OF SMALL BUSINESS CONCERN 460 Totten Pond Road  
Waltham, Massachusetts 02154

I hereby declare that the above identified small business concern qualifies as a small business concern as defined in 37 CFR 121.12, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees to the United States Patent and Trademark Office, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention described in:

- ☐ the specification filed herewith with title as listed above.  
☒ the application identified above.  
☐ the patent identified above.

If the rights held by the above identified small business concern are not exclusive, each individual, concern or organization having rights in the invention is listed below\* and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d), or a nonprofit organization under 37 CFR 1.9(c).

\*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

NAME None  
ADDRESS \_\_\_\_\_  
☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN ☐ NONPROFIT ORGANIZATION

NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN ☐ NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING Michael S. Hsu  
TITLE OF PERSON OTHER THAN OWNER President, Ztek Corporation  
ADDRESS OF PERSON SIGNING 460 Totten Pond Road, Waltham, Massachusetts 02154  
SIGNATURE Michael S. Hsu DATE May 6, 1996

## ASSIGNMENT

COF.

**We, Michael S. Hsu and Ethan D. Hoag, of Lincoln, Massachusetts, and East Boston, Massachusetts, respectively, in consideration of One Dollar and other valuable consideration paid to us by**

**ZTEK CORPORATION**

a corporation of the Commonwealth of Massachusetts, having its principal place of business at 460 Totten Pond Road, Waltham, Massachusetts 02154, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

**ZTEK CORPORATION**

its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in

## THERMALLY ENHANCED COMPACT REFORMER

described in an application Serial No. 08/631,432 filed on April 12, 1996, in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said corporation and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this 7<sup>th</sup> day of May, 1996.

By:

**Michael S. Hsu**

Commonwealth of Massachusetts )  
 )ss  
County of Middlesex )

Then personally appeared the above named **Michael S. Hsu** and acknowledged the foregoing instrument to be his free act and deed, before me, this 27<sup>th</sup> day of May, 1996.

*Martha Ramirez*  
Notary Public

My commission expires: 8-21-98

By: Ethan D. Hoag  
Ethan D. Hoag

Commonwealth of Massachusetts )  
 )ss  
County of Middlesex )

Then personally appeared the above named **Ethan D. Hoag** and acknowledged the foregoing instrument to be his free act and deed, before me, this 2<sup>nd</sup> day of May, 1996.

*Martin Casarez*  
Notary Public

My commission expires: 8-21-98